(19) World Intellectual Property Organization International Bureau

AIPO OMPI

(43) International Publication Date 18 May 2006 (18.05,2006)

PCT

(10) International Publication Number WO 2006/050937 A1

- (51) International Patent Classification:

 C08G 8/28 (2006.01) G03F 7/00 (2006.01)

 B41C 1/10 (2006.01)
- (21) International Application Number:

PCT/EP2005/012029

(22) International Filing Date:

8 November 2005 (08.11.2005)

(25) Flling Language:

English

(26) Publication Language:

English

- (30) Priority Data: 04078079.3 9 November 2004 (09.11.2004) EP
- (71) Applicant (for all designated States except US): IPAGSA INDUSTRIAL, S.L. [ES/ES]; Sant Jordi, 15, E-08191 Rubi - Barcelona (ES).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): BENTLEY, Peter, Jonathan [GB/ES]; Carrer D'Adriá Pardos, 13, E-08198 La Floresta - Barcelona (ES).
- (74) Agent: BERNARDO NORIEGA, Francisco; ABG Patentes, S.L., Orense, 68, 7th floor, E-28020 Madrid (ES).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: THERMALLY REACTIVE INFRARED ABSORPTION POLYMERS AND THEIR USE IN A HEAT SENSITIVE LITHOGRAPHIC PRINTING PLATE

(57) Abstract: The invention provides a near infrared absorption polymer comprising at least two different pendent infra-red chromophoric moieties covalently bonded to the backbone of an alkali-soluble resin, at least one of which is an indole cyanine dye and the other of which is a benz [e]-indole cyanine dye. When used in the coating of a heat sensitive positive working lithographic printing plate precursor the stabilization time needed after manufacture is significantly reduced, avoiding further conditioning processes before use. The precursors are preferably imagewise exposed with a near-infrared laser emitting at between 780 nm and 850 nm.

